Title (en)

LIGHTGUIDE

Title (de)

LICHTLEITER

Title (fr)

GUIDE DE LUMIÈRE

Publication

EP 2464996 A1 20120620 (EN)

Application

EP 10743310 A 20100811

Priority

- US 23322609 P 20090812
- US 2010045115 W 20100811

Abstract (en)

[origin: WO2011019785A1] Flexible unitary lightguide and a method of making the same are disclosed. The lightguide includes a structured input side that includes a first pattern having smaller features superimposed on a second pattern having larger features. The lightguide further includes a structured top surface that includes a first region and a different second region. The first region includes a plurality of discrete light extractors for extracting light that propagates within the flexible unitary lightguide by total internal reflection. The second region includes a taper portion for directing light from the structured input side to the first region. The light extractors form a periodic array that has a first period along the length of the flexible unitary lightguide. The first period is such that substantially no visible moir fringes occur when the flexible unitary lightguide is used as a backlight in a pixelated display.

IPC 8 full level

G02B 6/00 (2006.01); **F21V 8/00** (2006.01)

CPC (source: EP KR US)

B29D 11/0074 (2013.01 - US); **C03B 11/082** (2013.01 - US); **G02B 6/0016** (2013.01 - EP KR US); **G02B 6/0028** (2013.01 - EP KR US); **G02B 6/0036** (2013.01 - EP KR US); **G02B 6/0046** (2013.01 - KR); **G02B 6/0061** (2013.01 - EP US); **G02B 6/0065** (2013.01 - KR US); **G02F 1/133611** (2013.01 - KR); **G02F 1/133615** (2013.01 - KR); G02B 6/0046 (2013.01 - EP US); G02B 6/0088 (2013.01 - EP US)

Citation (search report)

See references of WO 2011019785A1

Citation (examination)

- EP 1688665 A1 20060809 - OMRON TATEISI ELECTRONICS CO [JP]
- US 2005190578 A1 20050901 - MIYASHITA JUNJI [JP]

Designated contracting state (EPC)

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DOCDB simple family (application)

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